

The Truckee River TMDL Collaborative Project

Gayle L. Dana *Desert Research Institute*

Lisa Beutler *Center for Collaborative Policy*

Catherine Olsen *Lahontan Regional Water
Quality Control Board*

Lisa Wallace *Truckee River Watershed Council*



Goal

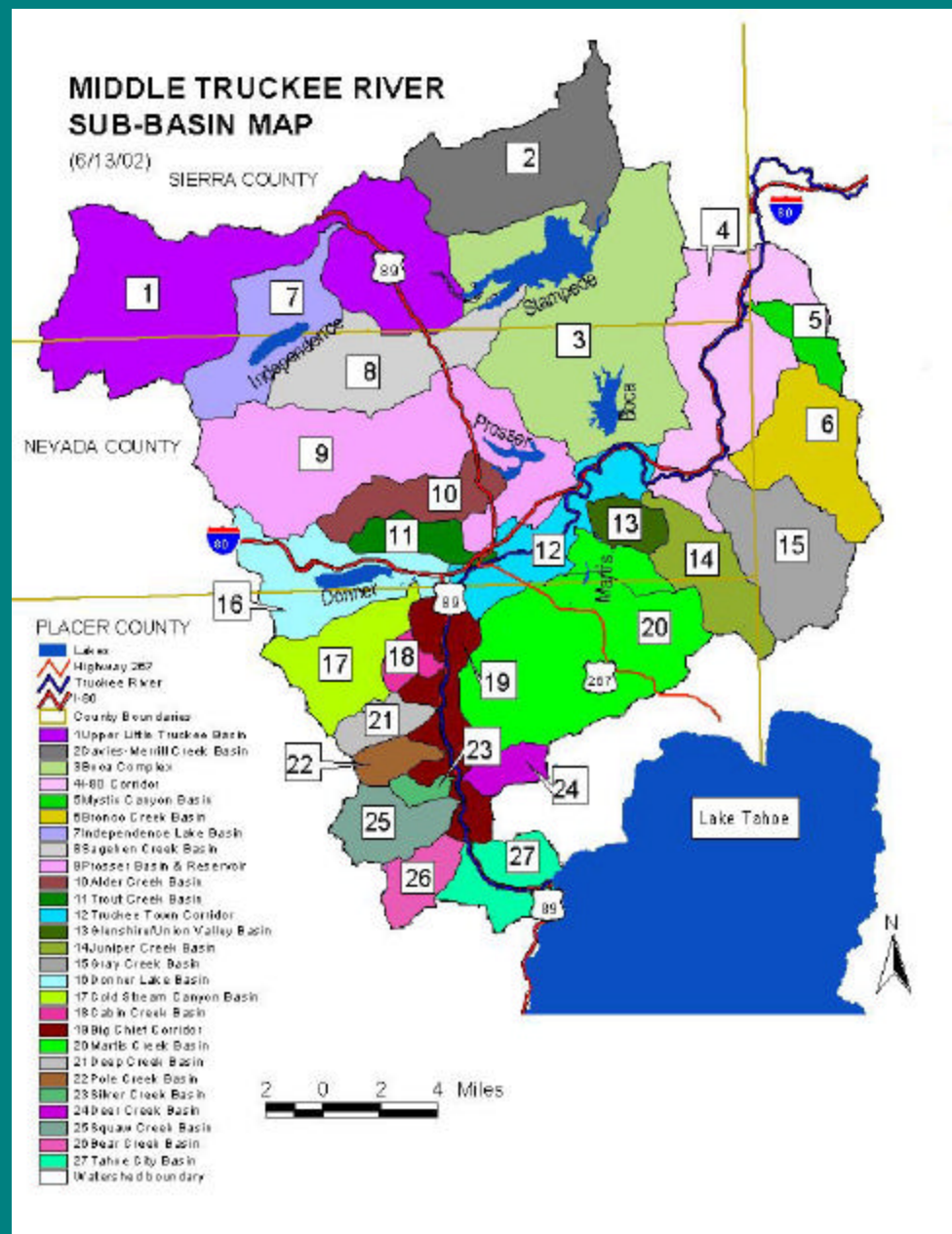
Public Participation in TMDL Development



“Middle” Truckee River Watershed



Sub-basins



Basis for 303 (d) Listing

- High quality of Truckee's waters
- Watershed's sensitivity to disturbance
- Historic legacy of land disturbance
- Repeated impacts on downstream uses
- Increasing frequency of sediment-related complaints and violations

Key Steps for TMDL Collaborative Process

- **Decision to Use Collaborative Public Process**
- **Retain Neutral Facilitator and Neutral Convener**
- **Engage Steering Committee**
- **Engage a Design Team**
- **Stage a Large Group “Launch” of Effort**



Public Input

Gather information
regarding conditions of
the Truckee River



Types of Information Gathered by Stakeholders

- Anecdotal information
- Field Studies
- Modeling Studies



Field Studies: Biota

Effect of Water Quality on Survival of Lahontan Cutthroat Trout Eggs in the Truckee River, West-Central Nevada and Eastern California

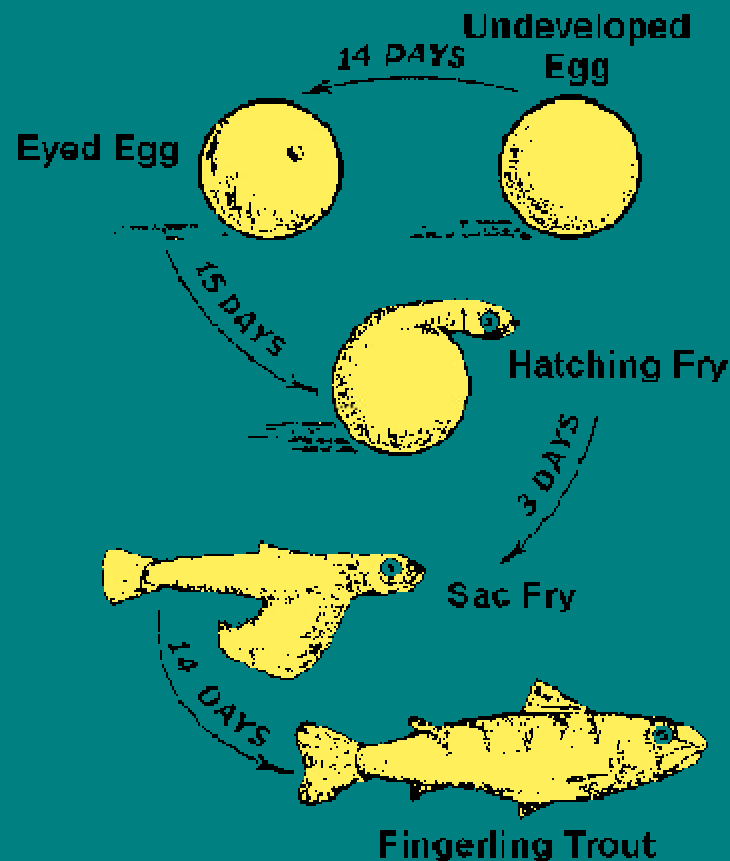
By RAY J. HOFFMAN
U.S. GEOLOGICAL SURVEY

G. GARY SCOPPETTONE
U.S. FISH AND WILDLIFE SERVICE

Prepared in
cooperation with the
U.S. Fish and Wildlife
Service and the
U.S. Bureau of
Indian Affairs

A product of the River-Quality Assessment of the
Truckee and Carson River Basins, Nevada and California

U.S. GEOLOGICAL SURVEY WATER-SUPPLY PAPER 2319



Field Studies: Sediment



Sediment Sampler

-  Sediment Variability
-  Sediment Loading
-  Sediment Surrogate



Turbidity Sensor

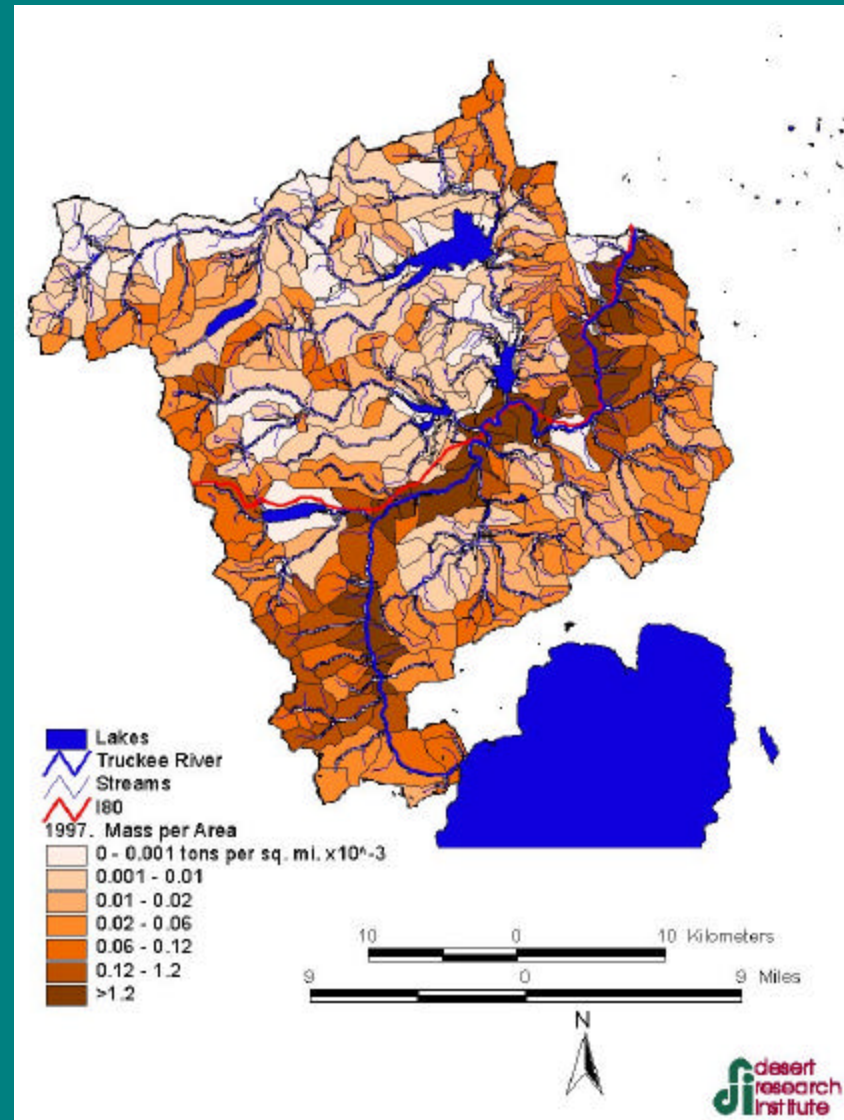


Modeling

(DRI, 2001)

1997 Sediment Load *by Subwatershed*

Sediment Mass per unit area (tons)

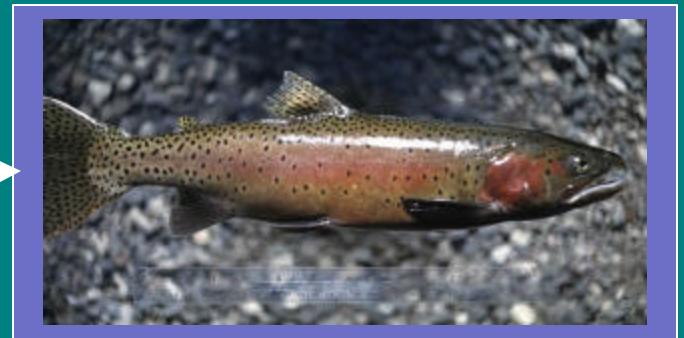


More Public Input

Frame substantive questions regarding science and the TMDL

“Is the river impaired?”

“Where is the evidence?”



Outcomes

- Go/ No Go Process resulted in decision to craft a test TMDL for Stakeholders to respond to.
- First step in Test TMDL: to critically evaluate evidence supporting impairment.
- Conclusion: scientific verification of impairment was lacking.

CRITICAL SUCCESS for the Collaborative Process!!

Without stakeholder asking for verification of impairment, Lahontan would have written an administratively correct, but scientifically untenable TMDL

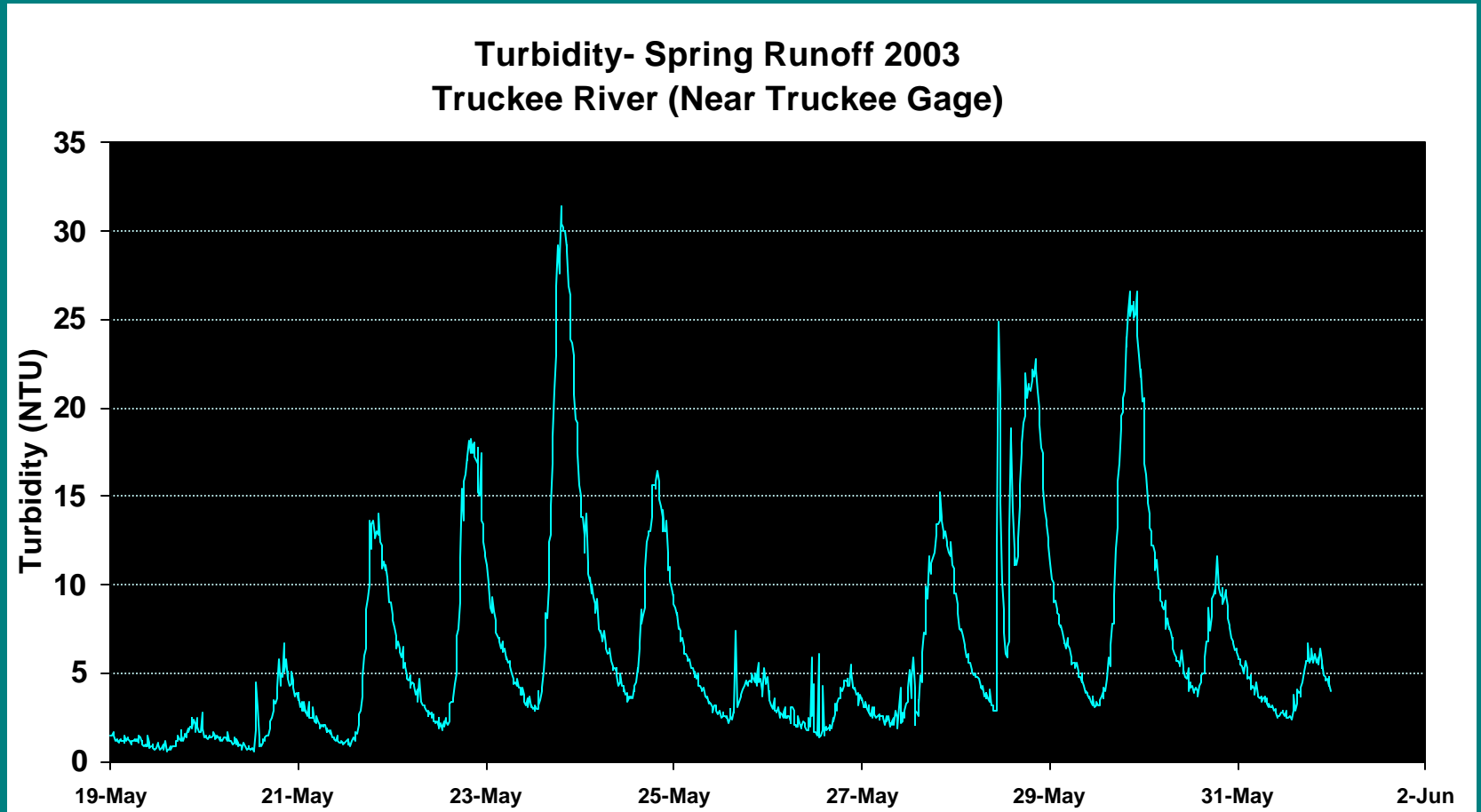
Next Step

Lahontan presently pursuing funding to answer appropriate questions to determine whether beneficial uses of the river are impaired

What does the macroinvertebrate species composition of the river tell us?

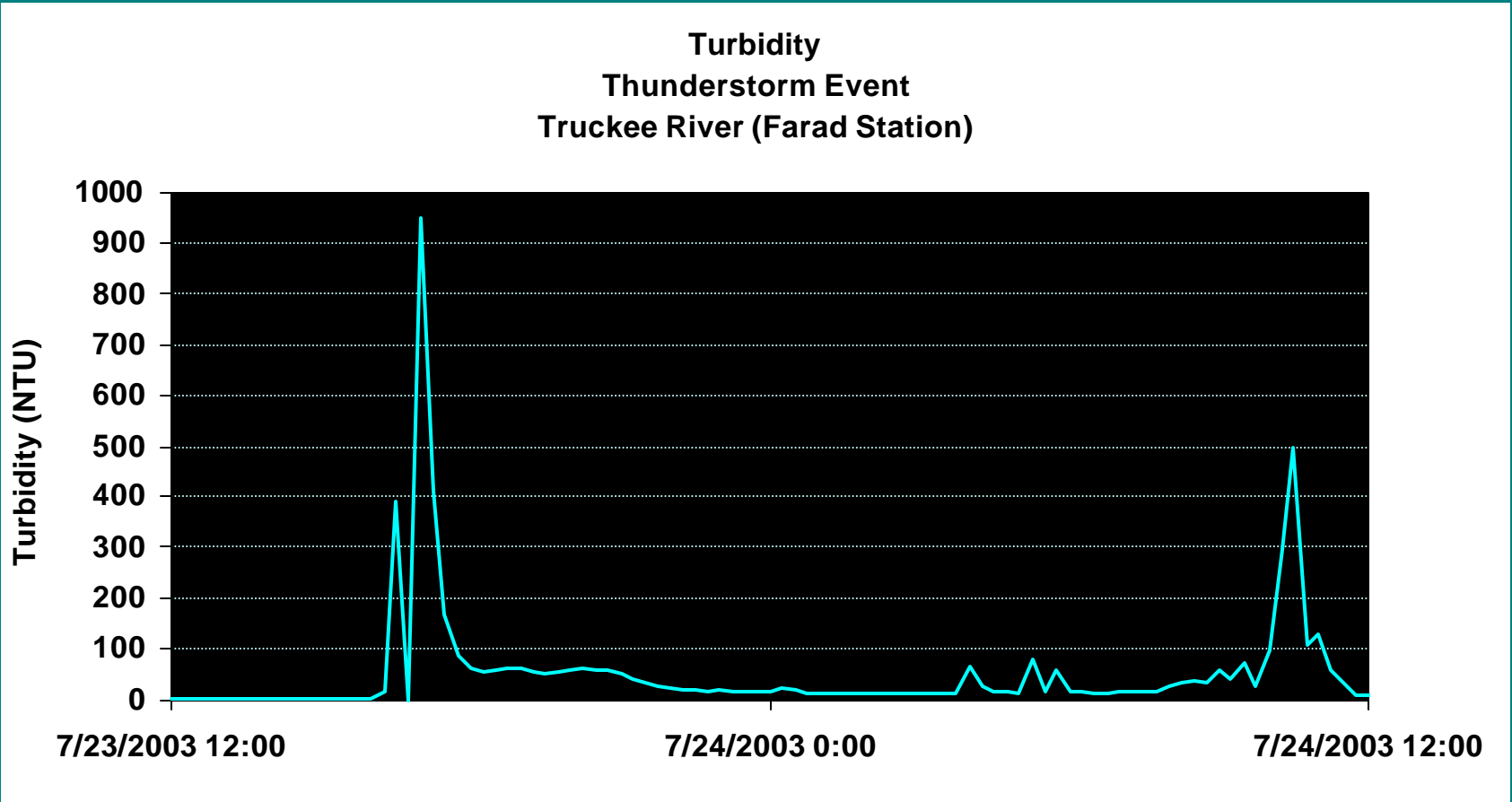


How Do Elevated Turbidity Events Impact Biota?



Standard for Truckee River is 3 NTU (Mean of monthly means)

How Do Elevated Turbidity Events Impact Biota?



Standard for Truckee River is 3 NTU (Mean of monthly means)



Next Steps for Public Participation

1. Provide feedback on impairment study and other TMDL data
2. If needed, identify the best methods to implement TMDL



What to Consider

- Sponsors
- Assessments
- Stakeholders
- Process Design
- Process Approach
- Decision-Making
- Resources
- Implementation

Lessons Learned - What We Would and Wouldn't Do Different Next Time

Next time we will:

- **Ensure the key stakeholders and sponsors TRULY understand the implications of the conditions for success**
- **Develop stronger role definitions**

More for next time ...

- **Create clearer charges or missions for any public group convened**
- **Create a closer link to data development and the public process**

Things That Worked Well



- Engaging key community members
- Use of a neutral convener
- Neutral facilitator/mediator providing trust and safety *in what would otherwise be a contentious situation.*
- Large group launch process

Keeping doing!



Gray Creek

- Build Go/No Go into process
- Use the public to assist with data collection
- Continue to monitor “conditions for success”
- Keep Goals in mind

CONCLUSIONS

- “Conditions for success” and several best practices can be extrapolated from this case and applied to other situations.
- Based on this case, even limited public participation can add value to development and implementation of TMDLs.



FOR MORE INFORMATION

Gayle L. Dana

*Division of Hydrological Sciences
Desert Research Institute, Reno, NV*

www.dri.edu/People/gdana/

775-674-7538

gdana@dri.edu



Lisa Beutler

*Center for Collaborative Policy
California State University, Sacramento*

www.csus.edu/ccp

916-445-2079

lisa-beutler@comcast.net



FOR MORE INFORMATION

Catherine Olsen

*Lahontan Regional Water Quality Control
Board*

CDOlsen@rb6s.swrcb.ca

530-542-5418

www.swrcb.ca.gov/rwqcb6/



Lisa Wallace

Truckee River Watershed Council

Lwallace@truckeeriverwc.org

530-550-8760

<http://www.truckeeriverwc.org/>

